60402626.081202

Distributed Virtual SAN Infrastructure
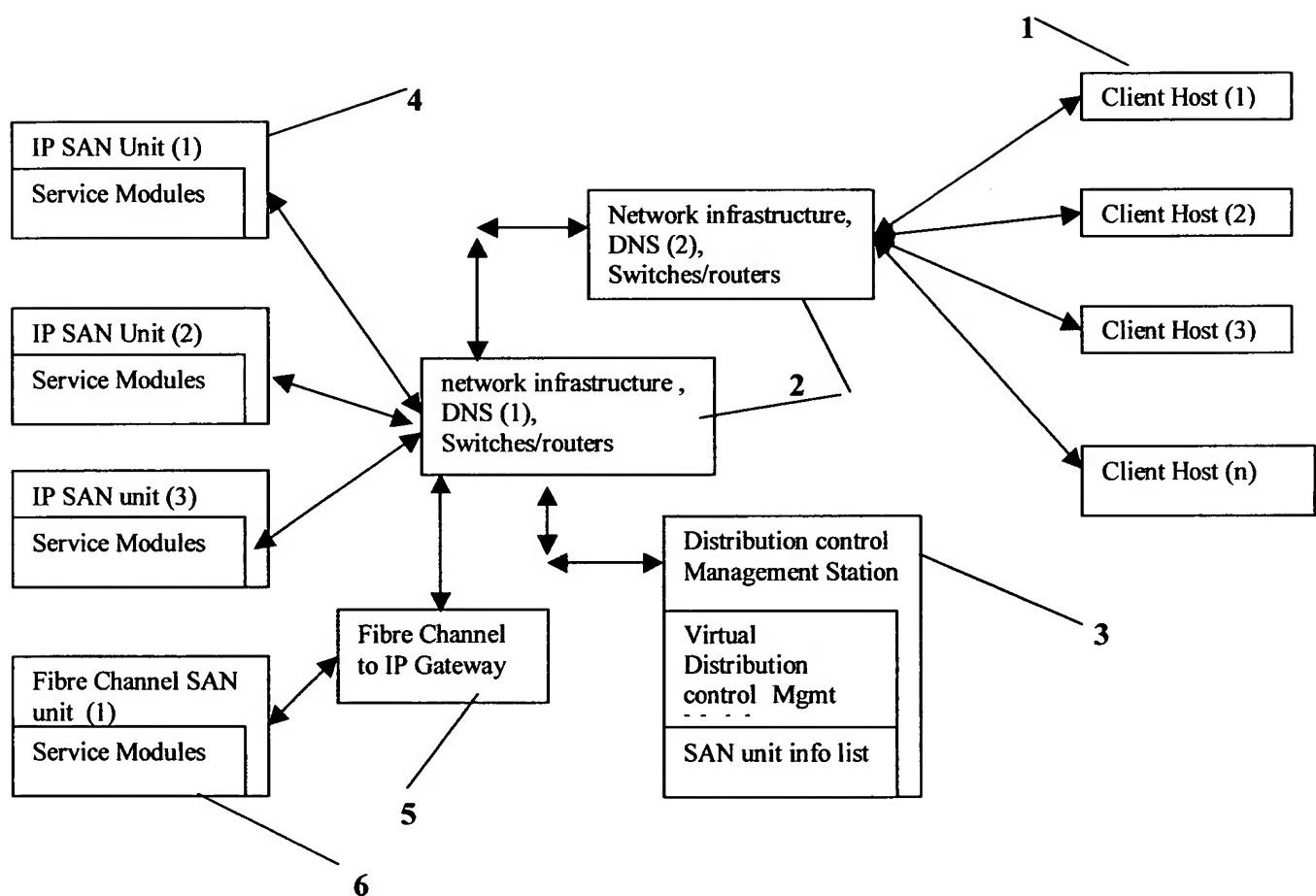
Fig. 1

The Components of Distributed Virtual SAN
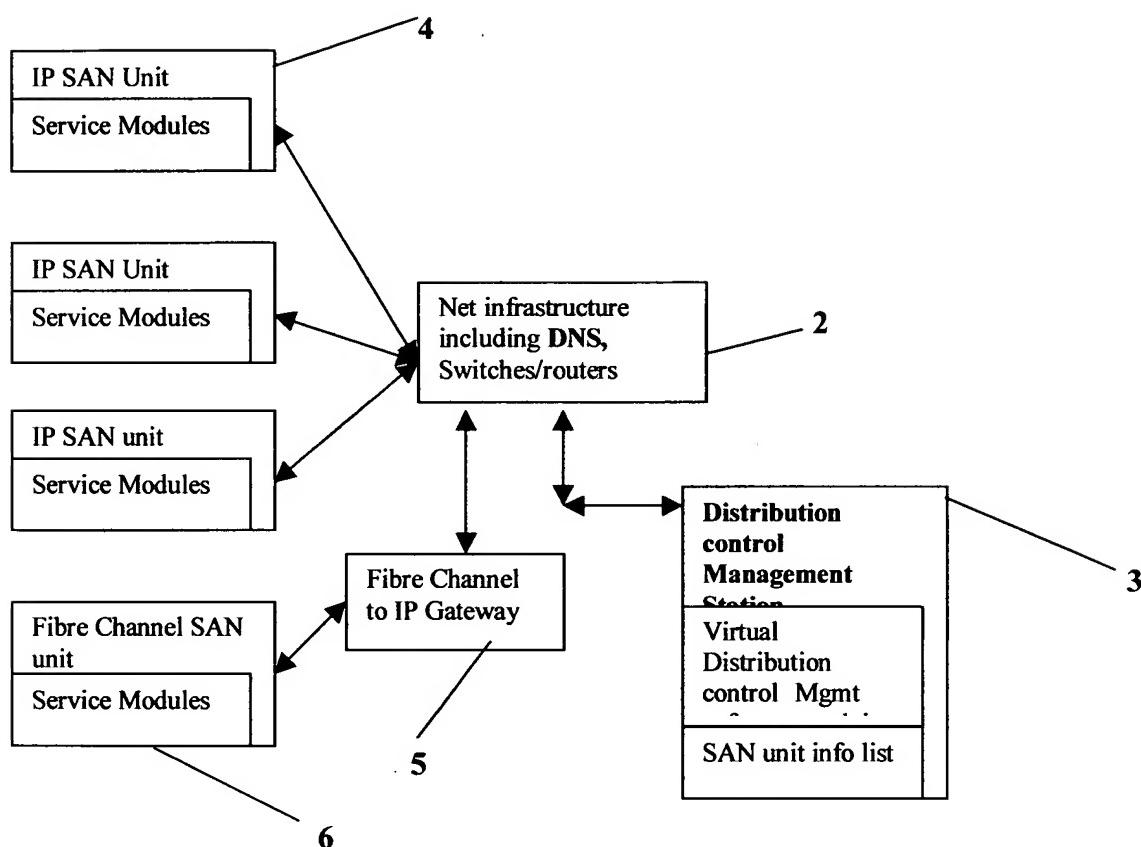

Fig. 2

Virtual SAN Automatic Configuration Protocol

IP SAN Unit (4)   **distribution control Management Station (3)**

Send "Unit (n) Start Up"

Receive "Unit (n) Start Up"

Receive "need unit (n) storage info"

Send "need unit(n) storage info"

Send "unit (n) storage info"

Receive "unit (n) storage info"

IP SAN Unit   **distribution control** Management
Station

Send "unit (n) shutdown"

Receive "unit (n) shutdown"
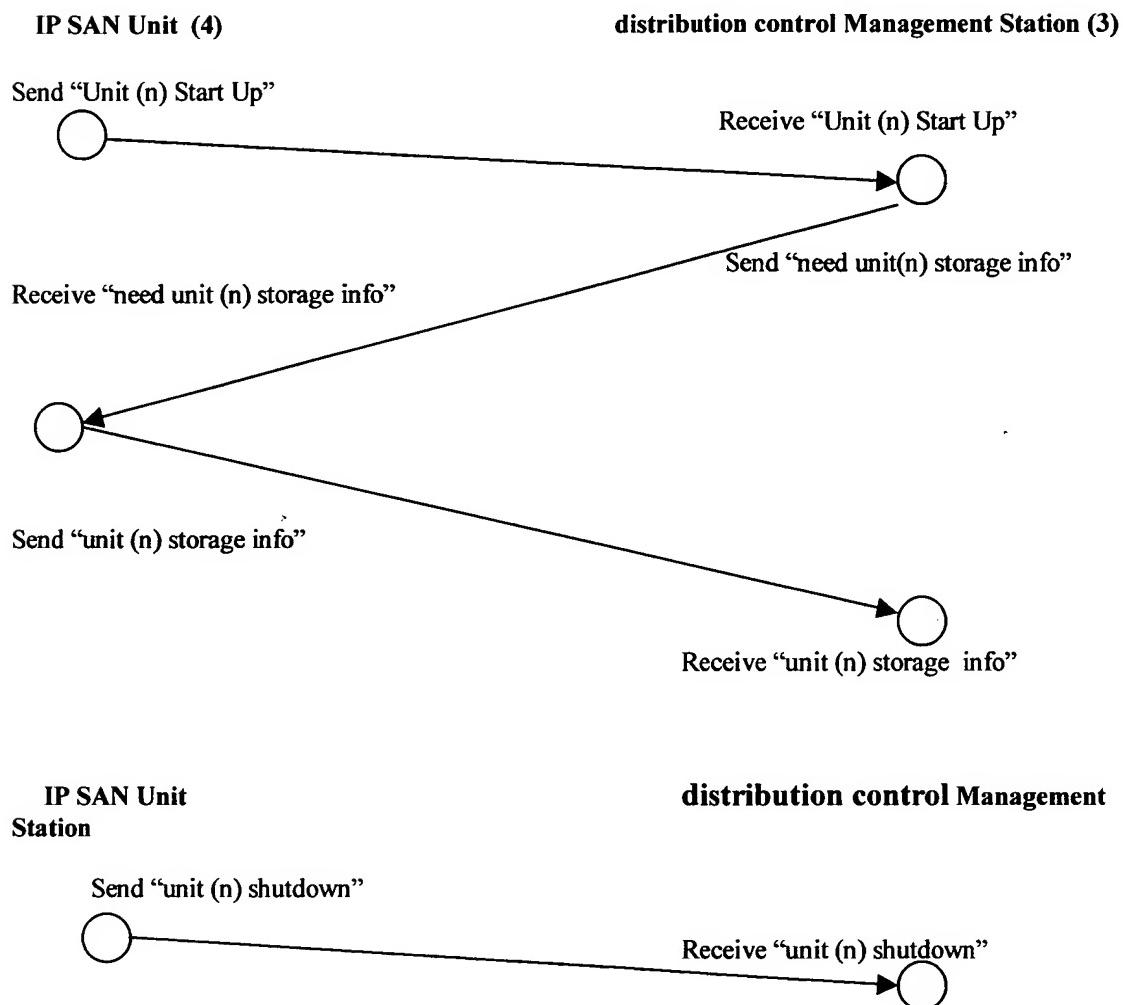
Fig. 3

The UDP packet format used by "Virtual SAN Auto Configuration Protocol"

Source IP address
Destination IP address
Source port
Destination port
Message Type
Data Length
Data Area
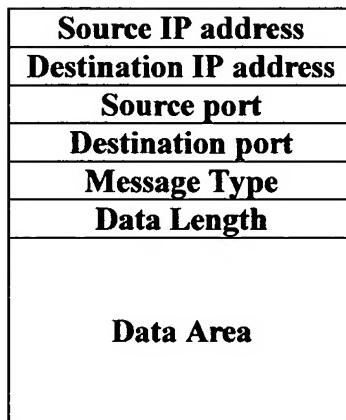
Fig. 4

Example of Storage Volume Information of an IP SAN Unit

IP SAN Unit

Volume 1			
P1	P2	P3	P3
Volume 2			
Volume 3			
Volume 4			
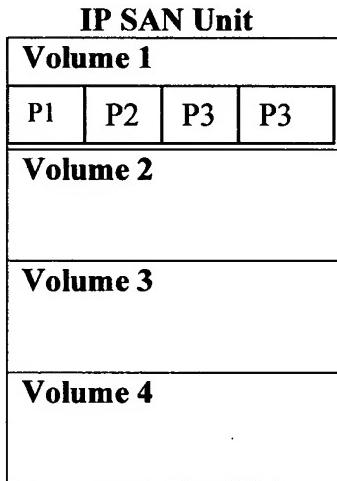
Note: Each v lume may further be partitioned into small chunk of
       partiti n.

Fig. 5

A Hypothetical Example of Storage Volume Requests and Assignments

IP SAN Unit (1)	Volume 1 50GB
	Volume 2 50GB
	Volume 3 60GB
	Volume 4 40GB

IP SAN Unit (2)	Volume 1 100GB
	Volume 2 100GB
	Volume 3 100GB

Client Host (1)

Client Host (2)

Fig. 6

15   Distributed Virtual SAN